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(54) **SWEETENER COMPOSITION**

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(58) **Field of Search** ..... **426/548, 590;**  
**560/39, 40, 41**

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(57) **ABSTRACT**

One embodiment of the present invention provides a sweetener composition, which includes N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester, and Aspartame, wherein a ratio of the Aspartame to a total amount of the Aspartame and the N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester is in the range of 10 to 99.5% by weight, methods of making and of using. Another embodiment of the present invention provides a method for preparing a sweetener composition, which includes drying an A-type crystal of N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester to obtain a C-type crystal of N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester. Another embodiment of the present invention provides a method for producing a sweetener, which includes admixing N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester with Aspartame, wherein a ratio of the Aspartame to a total amount of the N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester and the Aspartame is in the range of 10 to 99.5% by weight. Another embodiment of the present invention provides a method for improving the dissolution rate of N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester, which includes, prior to dissolving the N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester, admixing the N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester with Aspartame, wherein a ratio of the Aspartame to a total amount of the N-{N-(3,3-dimethylbutyl)-L- $\alpha$ -aspartyl}-L-phenylalanine 1-methyl ester and the Aspartame is in the range of 10 to 99.5% by weight.

**16 Claims, 2 Drawing Sheets**